

COLSF

8.2 VI

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SUBSIDIARY BRANCH

**ABC LABORATORIES, INC.  
EAST 4922 UNION AVENUE  
SPOKANE, WA 99212  
509-534-0161**

**REPORT TO: Bruce Austin  
P.O. Box 222  
Newman Lake, WA 99025**

**LAB NO :32018-88  
DATE: 12-19-88  
DATE REC'D: November  
P.O.#**

**ATTN:**

**DESCRIPTION: Perform Volatile Organic Scan on 19 submitted samples from the wells in the Colbert Landfill area. Analyses performed by methods outlined in proposal of December 8, 1988.**

**DETECTION LIMITS: 1 part per billion**

**ND: Not Detected**

**IS: Internal Standard**

**USEPA SF**



**1414331**

# ABC LABORATORIES, INC.

Austin, Bruce

Lab NO. 32018-88

Name

(b) (6)

WELL NO.	1173L-1	1573R-1	1073D-1	1073N-2	2273F-1	1473D-1
aaa Trifluorotoluene	IS	IS	IS	IS	IS	IS
Chloroform	ND	ND	ND	ND	ND	ND
1, 1, Dichloroethane	ND	ND	ND	ND	ND	ND
1, 1, Dichloroethylene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1, 1, 1, Trichloroethane	15	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2 Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethly Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4 Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1, 2, Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2, Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1, 2, Dichloroethylene	ND	ND	ND	ND	ND	ND
1, 2, Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1, 3, Dichloropropane	ND	ND	ND	ND	ND	ND
Trans 1, 3, Dichloropropylene	ND	ND	ND	ND	ND	ND
1, 1, 2, 2, Tetrachloroethane	ND	ND	ND	ND	ND	ND
1, 1, 2, Trichloroethane	ND	ND	ND	ND	ND	ND
2, Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

# ABC LABORATORIES, INC.

Austin, Bruce

Lab NO. 32018-88

Name

(b) (6)

(b) (6)

(b) (6)

sample #1 sample #2

WELL NO.	1573H-2	1573K-2	1573C-6	1573C-6	1573B-5	1473N-1
aaa Trifluorotoluene	IS	IS	IS	IS	IS	IS
Chloroform	ND	ND	ND	ND	ND	ND
1, 1, Dichloroethane	ND	ND	ND	ND	ND	ND
1, 1, Dichloroethylene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1, 1, 1, Trichloroethane	ND	ND	<1	<1	5	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2 Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4 Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1, 2, Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2, Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1, 2, Dichloroethylene	ND	ND	ND	ND	ND	ND
1, 2, Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1, 3, Dichloropropane	ND	ND	ND	ND	ND	ND
Trans 1, 3, Dichloropropylene	ND	ND	ND	ND	ND	ND
1, 1, 2, 2, Tetrachloroethane	ND	ND	ND	ND	ND	ND
1, 1, 2, Trichloroethane	ND	ND	ND	ND	ND	ND
2, Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

# **ABC LABORATORIES, INC.**

Austin, Bruce

Lab NO. 32018-88

Name

(b) (6)

WELL NO.	1073P-2	0273F-4	1573B-4	1573F-2	1573C-15	1573Q-1
aaa Trifluorotoluene	IS	IS	IS	IS	IS	IS
Chloroform	ND	ND	ND	ND	ND	ND
1, 1, Dichloroethane	ND	ND	ND	ND	ND	ND
1, 1, Dichloroethylene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1, 1, 1, Trichloroethane	ND	ND	15	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2 Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4 Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1, 2, Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2, Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1, 2, Dichloroethylene	ND	ND	ND	ND	ND	ND
1, 2, Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1, 3, Dichloropropane	ND	ND	ND	ND	ND	ND
Trans 1, 3, Dichloropropylene	ND	ND	ND	ND	ND	ND
1, 1, 2, 2, Tetrachloroethane	ND	ND	ND	ND	ND	ND
1, 1, 2, Trichloroethane	ND	ND	ND	ND	ND	ND
2, Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

# ABC LABORATORIES, INC.

Austin, Bruce

Lab NO. 32018-88

Name

(b) (6)

WELL NO.

1073L-1

aaa Trifluorotoluene	IS
Chloroform	ND
1, 1, Dichloroethane	ND
1, 1, Dichloroethylene	ND
Trichloroethylene	ND
1, 1, 1, Trichloroethane	ND
Tetrachloroethylene	ND
Methylene Chloride	ND
1-Pentene	ND
Cyclopentane	ND
Trans 2 Hexene	ND
Benzene	ND
Toluene	ND
Ethylene DiBromide	ND
Ethly Benzene	ND
M-xylene	ND
O-xylene	ND
P-xylene	ND
Cumene	ND
1,2,4 Trimethyl Benzene	ND
P-cymene	ND
Chlorobenzene	ND
M-dichlorobenzene	ND
O-dichlorobenzene	ND
P-dichlorobenzene	ND
Methyl Ethyl Ketone	ND
Acetone	ND
Bromodichloromethane	ND
Bromoform	ND
Carbon Tetrachloride	ND
Dibromochloromethane	ND
1, 2, Dichloroethane	ND
Trans 1,2, Dichloroethane	ND
Trans 1, 2, Dichloroethylene	ND
1, 2, Dichloropropane	ND
Cis 1, 3, Dichloropropane	ND
Trans 1, 3, Dichloropropylene	ND
1, 1, 2, 2, Tetrachloroethane	ND
1, 1, 2, Trichloroethane	ND
2, Chloroethylvinyl Ether	ND

**ABC LABORATORIES, INC.**

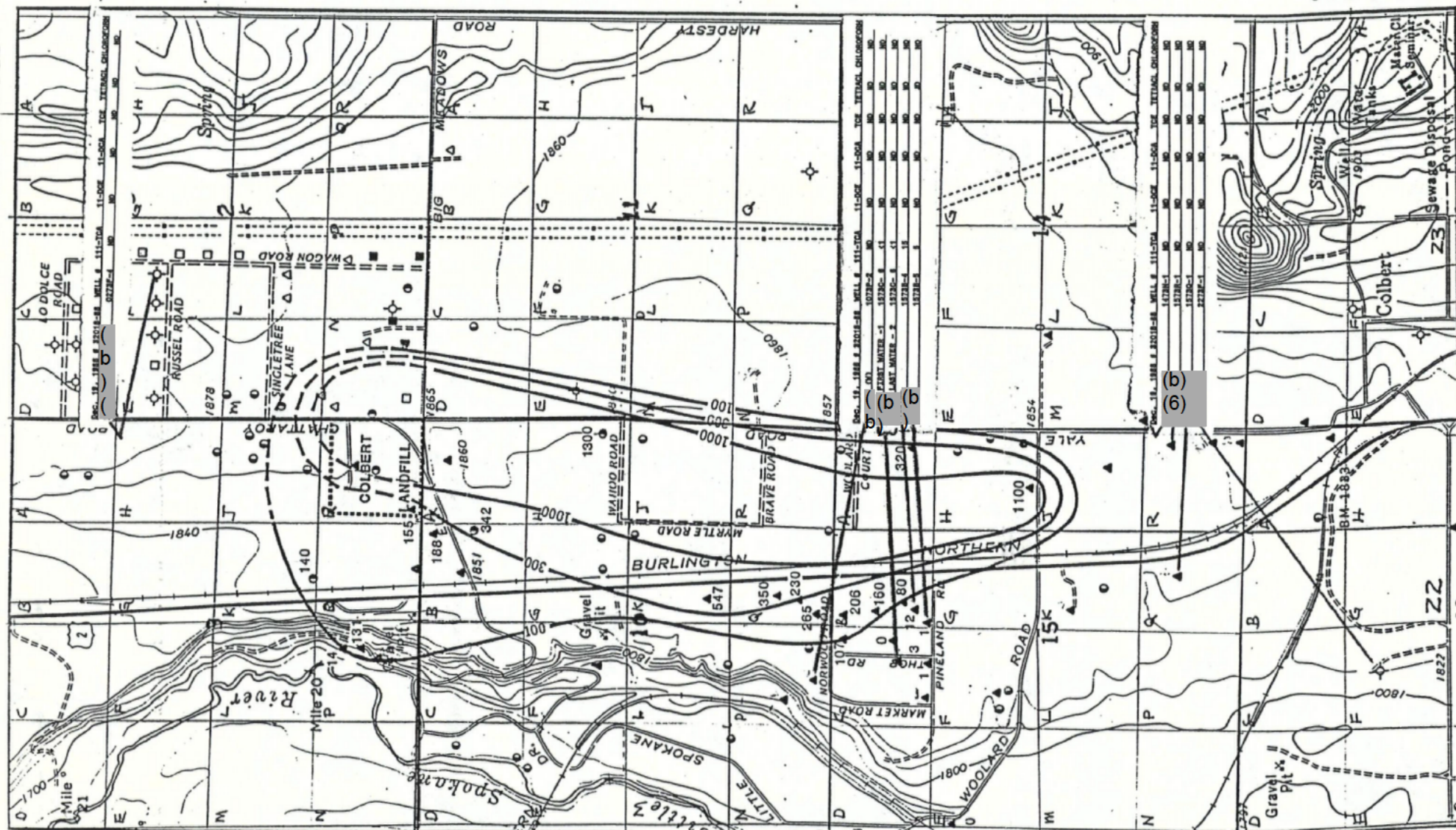
Austin, Bruce  
Lab NO. 32018-88

Respectfully submitted,  
ABC LABORATORIES, INC.

A handwritten signature in cursive script, appearing to read "W. E. Burkhardt".

W. E. Burkhardt  
Manager

HUNTER UNIVERSITY



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DEC 30 1988  
CLIFFORDIAN PRANCII

PERFORMANCE STANDARDS  
MAXIMUM ALLOWABLE CONTAMINANT CONCENTRATIONS

Health Protection Levels\*

\* Health Protection Levels are not to be exceeded, during operational life of remedial action in effluents from groundwater treatment systems. Permanent reduction of contaminant concentrations below these levels throughout the site will indicate completion of the remedial action.

Contaminant	Maximum Concentration parts per billion (ug/l)	Basis
1,1,1-Trichloroethane (TCA)	200.0	MCL
1,1-Dichloroethylene (DCE)	7.0	MCL
1,1-Dichloroethane (DCA)	4050.0	MAC
Trichloroethylene (TCE)	5.0	MCL
Tetrachloroethylene (PCE or TETRA CL)	0.7	10 - 6 cancer risk
Methylene Chloride (MC)	2.5	10 - 6 cancer risk

DEEP AQUIFER MAP

● - DEEP OR ASSOCIATED WITH DEEP AQUIFER = WELL # GRID

NOV 1988

